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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Ging Hauw KHOE, Myint ZAW, Patricia Salini  
Serial no. : PRASAD and Maree Therese EMETT  
For : PHOTO-ASSISTED OXIDATION OF INORGANIC  
Docket : SPECIES IN AQUEOUS SOLUTIONS  
GRIHAC P28AUS

**BOX PCT**

The Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**PRELIMINARY AMENDMENT**

Dear Sir:

By way of preliminary amendment, please amend the above identified application as set forth below.

**In the Claims:**

Please cancel original claims 1-9, without prejudice or disclaimer of the subject matter therein, in favor of new claims 10-17 as follows.

10. A method for oxidizing an inorganic species in an aqueous solution comprising the steps of:

- (i) supplying an oxidizable source of sulphur, and oxygen to the solution; and
- (ii) irradiating the solution with UV light such that the species is oxidized.

Sub 11. The method as claimed in claim 10, wherein the oxidizable source of sulphur is  $\text{SO}_3^{2-}$ ,  $\text{SO}_2(\text{g})$ , aqueous  $\text{SO}_2$ ,  $\text{HSO}_3^-$ ,  $\text{S}_2\text{O}_3^{2-}$ ,  $\text{S}_4\text{O}_6^{2-}$ .

12. The method as claimed in claim 10, wherein the inorganic species is present in the aqueous solution in trace quantities.

Sub 13. The method as claimed in claim 10, wherein the inorganic species is arsenic manganese, cerium, and/or iron.

14. The method as claimed in claim 10, wherein the wavelength of UV light is less than 300 nm.